PATENT CLAIMS

- 1. A method to improve the filterability of the first fine-grained waste material generated in a metallurgical industry, characterized in that before filtration at least one other fine-grained waste material is added to the first waste material, which has a particle size that is either larger than the particle size of the first waste material, and/or that the particle shape clearly differs from that of the first waste material, and/or that its surface charge is of the opposite sign to the first waste material, and that the materials remain stable in the same kind of conditions.
- 2. A method according to claim 1, **characterized in that** the first waste material is an iron precipitate generated during the fabrication of zinc.
- 3. A method according to claim 1 or 2, **characterized in that** the first waste material is jarosite precipitate.
- 4. A method according to claim 1 or 2, **characterized in that** the first waste material is goethite precipitate.
- 5. A method according to claim 1 or 2, **characterized in that** the first waste material is hematite precipitate.
- A method according to one of the above claims 1 5, characterized
 in that the second waste material is gypsum precipitate.
- 7. A method according to one of the above claims 1 6, characterized in that the amount of the second waste material to be added is 5 50 % of the amount of the first.

- A method according to one of the above claims 2 6, characterized in that the amount of second waste material to be added is 10 30 % of the amount of the first.
- 9. A method according to one of the above claims 1 5, **characterized** in that the particle size of the first waste material is in the region of less than 30 μm .
- 10. A method according to one of the above claims 1 or 6 9, characterized in that the particle size of the second waste material to be added is at least twice as large as the particle size of the first waste material.
- 11. A method according to claim 1, **characterized in that** the first waste material is hydroxide precipitate.
- 12. A method according to claim 1 and 11, **characterized in that** the second waste material is gypsum precipitate.
- 13. A method according to claim 1, characterized in that the particle shape of one waste material is spherical and the other needleshaped.